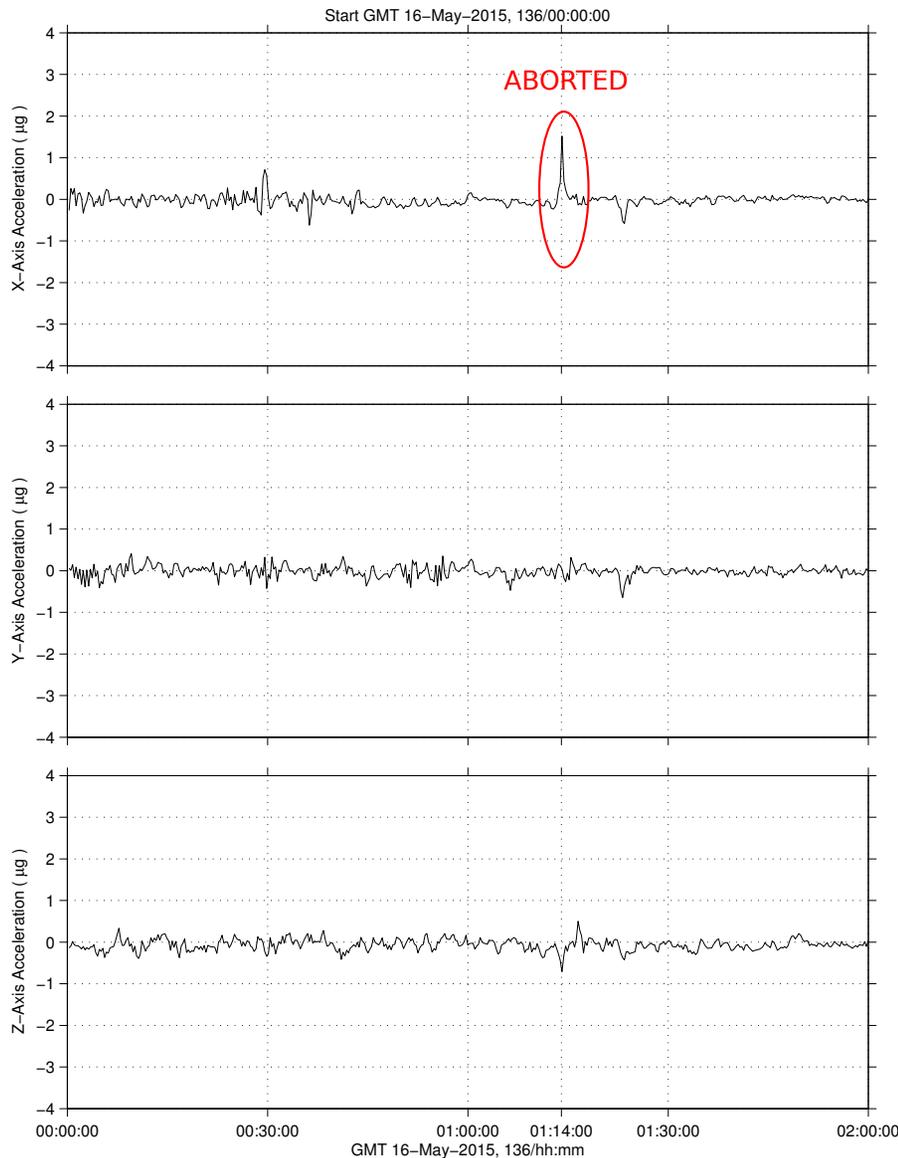


Progress 58P Reboost Abort Retry Qualify

mams_ossbtfm at LAB1O2, ER1, Lockers 3,4[135.28 -10.68 132.12] Quasi-steady Roadmap
 0.0625 sa/sec (0.01 Hz) MAMS Baseline-Corrected Via Rates/Angles SSAnalysis[0.0 0.0 0.0]
 MEDIAN DELTAS (ossbtfm - radgse): X = -0.4777, Y = -0.6921, Z = 1.1103 (µg)



Description	
Sensor	MAMS ossbtfm (baseline corr.) 0.0625 sa/sec, 0.01 Hz
Location	LAB1O2, ER1, Lockers 3,4
Plot Type	Acceleration vs. Time

Notes:

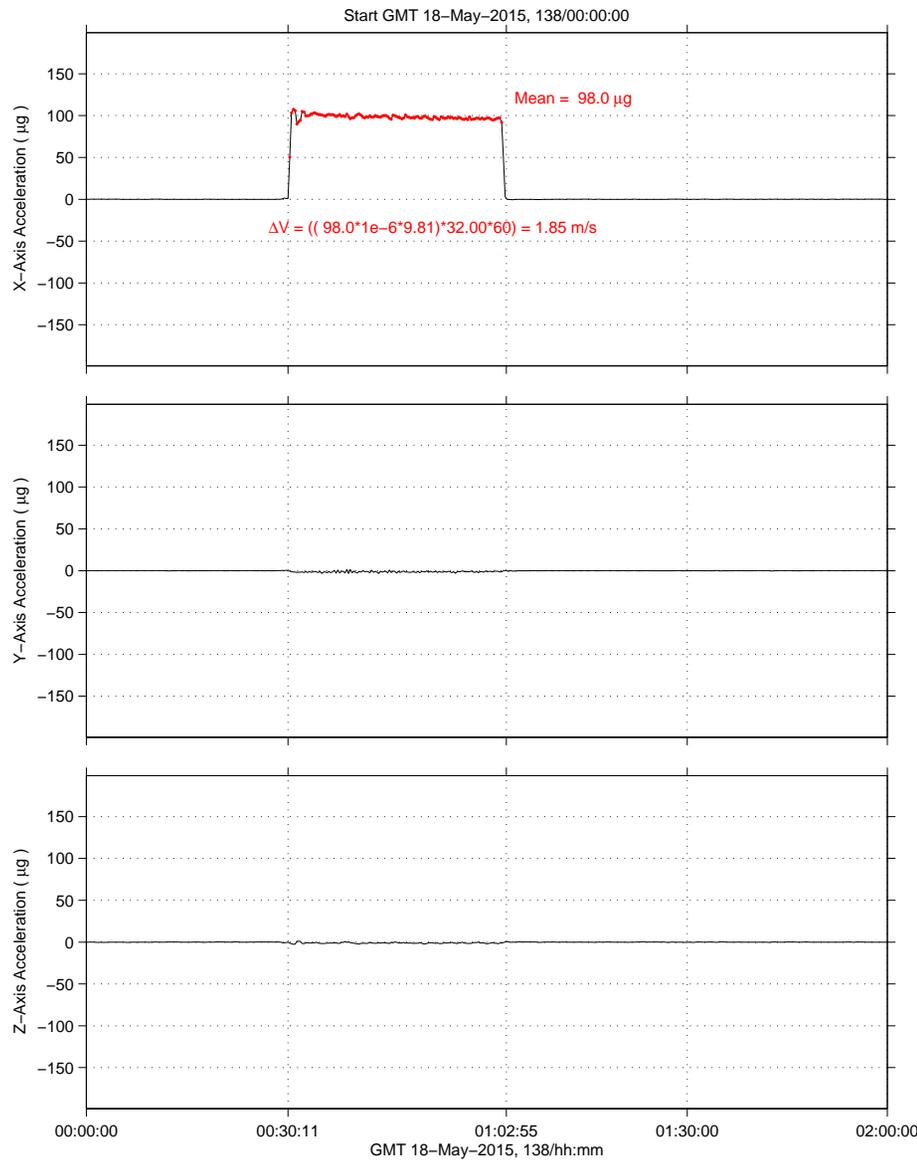
- GMT 18-May-2015: At a hardware tag meeting, it was reported that "aborted reboost stopped after 1 second; completed 2 days later okay, but 2nd attempt at reboost was longer duration than expected."
- The As-flown Time Line (ATL) calls for Time of Ignition (TIG) at GMT 136/01:14 with expected duration of 15m 01s.
- This plot of MAMS OSS data versus time was corrected by subtracting off the median deltas (per-axis) from rates/angles data (radgse) as shown in the title text of the plot.
- The X-axis data clearly shows the initial attempt at reboost, but the acceleration quickly decayed back to baseline levels.
- The MAMS OSS measurements are consistent with the report of abort after about 1 second starting at 01:14.

Regime:	Quasi-Steady
Category:	Vehicle
Source:	Progress 58P Reboost Abort Retry



Progress 58P Reboost Abort Retry Quantify

mams_ossbtfm at LAB1O2, ER1, Lockers 3,4[135.28 -10.68 132.12] Quasi-steady Roadmap
 0.0625 sa/sec (0.01 Hz) MAMS Baseline-Corrected Via Rates/Angles SSAnalysis[0.0 0.0 0.0]
 MEDIAN DELTAS (ossbtfm - radgse): X = -0.4533, Y = -0.7692, Z = 0.7640 (µg)



Description	
Sensor	MAMS ossbtfm (baseline corr.) 0.0625 sa/sec, 0.01 Hz
Location	LAB1O2, ER1, Lockers 3,4
Plot Type	Acceleration vs. Time

Notes:

- The As-flown Time Line (ATL) calls for Time of Ignition (TIG) at GMT 138/00:30 with expected duration of 32m 03s.
- This plot of MAMS OSS data versus time was corrected by subtracting off the median deltas (per-axis) from rates/angles data (radgse) as shown in the title text of the plot.
- The X-axis data clearly shows the 2nd attempt at reboost from GMT 00:30:11 to 01:02:55, an actual duration of 32m 44s (longer than expected).
- The MAMS OSS measurements are consistent with the report of approximate start time and longer-than-expected duration.
- Calculations based on MAMS OSS baseline-corrected data for the X-axis indicates a “delta V” metric of 1.85 m/s.

Regime:	Quasi-Steady
Category:	Vehicle
Source:	Progress 58P Reboost Abort Retry

